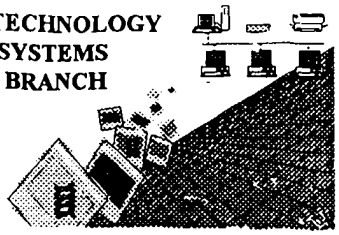
BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/679,670
Source: IFW0
Date Processed by STIC: 11/3/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221
Effective 12/13/03: **TELEPHONE: 571-272-2510; FAX: 571-273-0221**

TO REDUCE ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

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Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**> , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry directly to (EFFECTIVE 12/01/03):** U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
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Revised 10/08/03

IFWO

RAW SEQUENCE LISTING DATE: 11/03/2003
PATENT APPLICATION: **US/10/679,670** TIME: 12:07:19

Input Set : **A:\37428A.txt**
Output Set: **N:\CRF4\11032003\J679670.raw**

```
      5 <110> APPLICANT: Paszty, Christopher
      6       Gao, Yongming
      8 <120> TITLE OF INVENTION: Cysteine Knot Polypeptides: Cloaked-2 Molecules and Uses
Thereof
     10 <130> FILE REFERENCE: 01017/37428A
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/679,670
C--> 12 <141> CURRENT FILING DATE: 2003-10-06
     12 <150> PRIOR APPLICATION NUMBER: US 60/208,550
     13 <151> PRIOR FILING DATE: 2000-06-01
     15 <150> PRIOR APPLICATION NUMBER: US 60/223,542
     16 <151> PRIOR FILING DATE: 2000-08-04
     18 <160> NUMBER OF SEQ ID NOS: 25
     20 <170> SOFTWARE: PatentIn version 3.0
     22 <210> SEQ ID NO: 1
     23 <211> LENGTH: 759
     24 <212> TYPE: DNA
     25 <213> ORGANISM: Homo sapiens
     27 <400> SEQUENCE: 1
     29 tactggaagg tggcgtgccc tcctctggct ggtaccatgc agctcccact ggccctgtgt      60
     31 ctcgtctgcc tgctggtaca cacagccttc cgtgtagtgg agggccaggg gtggcaggcg     120
     33 ttcaagaatg atgccacgga aatcatcccc gagctcggag agtaccccga gcctccaccg     180
     35 gagctggaga acaacaagac catgaaccgg gcggagaacg gagggcggcc tccccaccac     240
     37 cccttgaga ccaaagacgt gtccgagtac agctgccgcg agctgcactt cacccgctac     300
     39 gtgaccgatg ggccgtgccg cagcgccaag ccggtcaccg agctggtgtg ctccggccag     360
     41 tgcggccccgg cgcgcctgct gcccaacgcc atcggccgcg gcaagtggtg gcgacctagt     420
     43 gggcccgact tccgctgcat ccccgaccgc taccgcgcgc agcgcgtgca gctgctgtgt     480
     45 cccggtggtg aggcgccgcg cgcgcgcaag gtgcgcctgg tggcctcgtg caagtgcaag     540
     47 cgcctcaccc gcttccacaa ccagtcggag ctcaaggact tcgggaccga ggccgctcgg     600
     49 ccgcagaagg gccggaagcc gcggccccgc gcccggagcg ccaaagccaa ccaggccgag     660
     51 ctggagaacg cctactagag cccgcccgcg ccccttccca ccggcgggcg ccccggccct     720
     53 gaacccgcgc cccacatttc tgtcctctgc gcgtggtttt                          759
     56 <210> SEQ ID NO: 2
     57 <211> LENGTH: 190
     58 <212> TYPE: PRT
     59 <213> ORGANISM: Homo sapiens
     61 <400> SEQUENCE: 2
     64 Gln Gly Trp Gln Ala Phe Lys Asn Asp Ala Thr Glu Ile Ile Pro Glu
     65 1               5                  10                  15
     67 Leu Gly Glu Tyr Pro Glu Pro Pro Pro Glu Leu Glu Asn Asn Lys Thr
     68            20                  25                  30
     70 Met Asn Arg Ala Glu Asn Gly Gly Arg Pro Pro His His Pro Phe Glu
     71        35                  40                  45
     73 Thr Lys Asp Val Ser Glu Tyr Ser Cys Arg Glu Leu His Phe Thr Arg
     74    50                  55                  60
```

Does Not Comply
Corrected Diskette Needed

TP 6-7

RAW SEQUENCE LISTING DATE: 11/03/2003
PATENT APPLICATION: **US/10/679,670** TIME: 12:07:19

Input Set : **A:\37428A.txt**
Output Set: **N:\CRF4\11032003\J679670.raw**

```
Tyr Val Thr Asp Gly Pro Cys Arg Ser Ala Lys Pro Val Thr Glu Leu
65                  70                  75                  80
Val Cys Ser Gly Gln Cys Gly Pro Ala Arg Leu Leu Pro Asn Ala Ile
                85                  90                  95
Gly Arg Gly Lys Trp Trp Arg Pro Ser Gly Pro Asp Phe Arg Cys Ile
            100                 105                 110
Pro Asp Arg Tyr Arg Ala Gln Arg Val Gln Leu Leu Cys Pro Gly Gly
        115                 120                 125
Glu Ala Pro Arg Ala Arg Lys Val Arg Leu Val Ala Ser Cys Lys Cys
    130                 135                 140
Lys Arg Leu Thr Arg Phe His Asn Gln Ser Glu Leu Lys Asp Phe Gly
145                 150                 155                 160
Thr Glu Ala Ala Arg Pro Gln Lys Gly Arg Lys Pro Arg Pro Arg Ala
                165                 170                 175
Arg Ser Ala Lys Ala Asn Gln Ala Glu Leu Glu Asn Ala Tyr
            180                 185                 190
<210> SEQ ID NO: 3
<211> LENGTH: 636
<212> TYPE: DNA
<213> ORGANISM: Mus musculus
<400> SEQUENCE: 3
atgcagccct cactagcccc gtgcctcatc tgcctacttg tgcacgctgc cttctgtgct     60
gtggagggcc agggggtggca agccttcagg aatgatgcca cagaggtcat cccagggctt    120
ggagagtacc ccgagcctcc tcctgagaac aaccagacca tgaaccgggc ggagaatgga    180
ggcagacctc cccaccatcc ctatgacgcc aaagatgtgt ccgagtacag ctgccgcgag    240
ctgcactaca cccgcttcct gacagacggc ccatgccgca gcgccaagcc ggtcaccgag    300
ttggtgtgct ccggccagtg cggccccgcg cggctgctgc ccaacgccat cgggcgcgtg    360
aagtggtggc gcccgaacgg accggatttc cgctgcatcc cggatcgcta ccgcgcgcag    420
cgggtgcagc tgctgtgccc cgggggcgcg gcgccgcgct cgcgcaaggt gcgtctggtg    480
gcctcgtgca agtgcaagcg cctcacccgc ttccacaacc agtcggagct caaggacttc    540
gggccggaga ccgcgcggcc gcagaagggt cgcaagccgc ggccccggcgc ccggggagcc    600
aaagccaacc aggcggagct ggagaacgcc tactag                               636
<210> SEQ ID NO: 4
<211> LENGTH: 185
<212> TYPE: PRT
<213> ORGANISM: Mus musculus
<400> SEQUENCE: 4
Gln Gly Trp Gln Ala Phe Arg Asn Asp Ala Thr Glu Val Ile Pro Gly
1               5                   10                  15
Leu Gly Glu Tyr Pro Glu Pro Pro Pro Glu Asn Asn Gln Thr Met Asn
            20                  25                  30
Arg Ala Glu Asn Gly Gly Arg Pro Pro His His Pro Tyr Asp Ala Lys
        35                  40                  45
Asp Val Ser Glu Tyr Ser Cys Arg Glu Leu His Tyr Thr Arg Phe Leu
    50                  55                  60
Thr Asp Gly Pro Cys Arg Ser Ala Lys Pro Val Thr Glu Leu Val Cys
65                  70                  75                  80
Ser Gly Gln Cys Gly Pro Ala Arg Leu Leu Pro Asn Ala Ile Gly Arg
                85                  90                  95
```

RAW SEQUENCE LISTING DATE: 11/03/2003
PATENT APPLICATION: **US/10/679,670** TIME: 12:07:19

Input Set : **A:\37428A.txt**
Output Set: **N:\CRF4\11032003\J679670.raw**

```
156 Val Lys Trp Trp Arg Pro Asn Gly Pro Asp Phe Arg Cys Ile Pro Asp
157             100                 105                 110
159 Arg Tyr Arg Ala Gln Arg Val Gln Leu Leu Cys Pro Gly Gly Ala Ala
160         115                 120                 125
162 Pro Arg Ser Arg Lys Val Arg Leu Val Ala Ser Cys Lys Cys Lys Arg
163     130                 135                 140
165 Leu Thr Arg Phe His Asn Gln Ser Glu Leu Lys Asp Phe Gly Pro Glu
166 145                 150                 155                 160
168 Thr Ala Arg Pro Gln Lys Gly Arg Lys Pro Arg Pro Gly Ala Lys Ala
169                 165                 170                 175
171 Asn Gln Ala Glu Leu Glu Asn Ala Tyr
172             180                 185
175 <210> SEQ ID NO: 5
176 <211> LENGTH: 213
177 <212> TYPE: PRT
178 <213> ORGANISM: Homo sapiens
180 <400> SEQUENCE: 5
182 Met Gln Leu Pro Leu Ala Leu Cys Leu Val Cys Leu Leu Val His Thr
183 1               5                   10                  15
185 Ala Phe Arg Val Val Glu Gly Gln Gly Trp Gln Ala Phe Lys Asn Asp
186             20                  25                  30
188 Ala Thr Glu Ile Ile Pro Glu Leu Gly Glu Tyr Pro Glu Pro Pro Pro
189         35                  40                  45
191 Glu Leu Glu Asn Asn Lys Thr Met Asn Arg Ala Glu Asn Gly Gly Arg
192     50                  55                  60
194 Pro Pro His His Pro Phe Glu Thr Lys Asp Val Ser Glu Tyr Ser Cys
195 65                  70                  75                  80
197 Arg Glu Leu His Phe Thr Arg Tyr Val Thr Asp Gly Pro Cys Arg Ser
198                 85                  90                  95
200 Ala Lys Pro Val Thr Glu Leu Val Cys Ser Gly Gln Cys Gly Pro Ala
201             100                 105                 110
203 Arg Leu Leu Pro Asn Ala Ile Gly Arg Gly Lys Trp Trp Arg Pro Ser
204         115                 120                 125
206 Gly Pro Asp Phe Arg Cys Ile Pro Asp Arg Tyr Arg Ala Gln Arg Val
207     130                 135                 140
209 Gln Leu Leu Cys Pro Gly Gly Glu Ala Pro Arg Ala Arg Lys Val Arg
210 145                 150                 155                 160
212 Leu Val Ala Ser Cys Lys Cys Lys Arg Leu Thr Arg Phe His Asn Gln
213                 165                 170                 175
215 Ser Glu Leu Lys Asp Phe Gly Thr Glu Ala Ala Arg Pro Gln Lys Gly
216             180                 185                 190
218 Arg Lys Pro Arg Pro Arg Ala Arg Ser Ala Lys Ala Asn Gln Ala Glu
219         195                 200                 205
221 Leu Glu Asn Ala Tyr
222     210
225 <210> SEQ ID NO: 6
226 <211> LENGTH: 208
227 <212> TYPE: PRT
228 <213> ORGANISM: Mus musculus
```

RAW SEQUENCE LISTING DATE: 11/03/2003
PATENT APPLICATION: **US/10/679,670** TIME: 12:07:19

Input Set : **A:\37428A.txt**
Output Set: **N:\CRF4\11032003\J679670.raw**

```
230 <400> SEQUENCE: 6
232 Met Gln Pro Ser Leu Ala Pro Cys Leu Ile Cys Leu Leu Val His Ala
233 1               5                  10                  15
235 Ala Phe Cys Ala Val Glu Gly Gln Gly Trp Gln Ala Phe Arg Asn Asp
236             20                  25                  30
238 Ala Thr Glu Val Ile Pro Gly Leu Gly Glu Tyr Pro Glu Pro Pro Pro
239         35                  40                  45
241 Glu Asn Asn Gln Thr Met Asn Arg Ala Glu Asn Gly Gly Arg Pro Pro
242     50                  55                  60
244 His His Pro Tyr Asp Ala Lys Asp Val Ser Glu Tyr Ser Cys Arg Glu
245 65                  70                  75                  80
247 Leu His Tyr Thr Arg Phe Leu Thr Asp Gly Pro Cys Arg Ser Ala Lys
248                 85                  90                  95
250 Pro Val Thr Glu Leu Val Cys Ser Gly Gln Cys Gly Pro Ala Arg Leu
251             100                 105                 110
253 Leu Pro Asn Ala Ile Gly Arg Val Lys Trp Trp Arg Pro Asn Gly Pro
254         115                 120                 125
256 Asp Phe Arg Cys Ile Pro Asp Arg Tyr Arg Ala Gln Arg Val Gln Leu
257     130                 135                 140
259 Leu Cys Pro Gly Gly Ala Ala Pro Arg Ser Arg Lys Val Arg Leu Val
260 145                 150                 155                 160
262 Ala Ser Cys Lys Cys Lys Arg Leu Thr Arg Phe His Asn Gln Ser Glu
263                 165                 170                 175
265 Leu Lys Asp Phe Gly Pro Glu Thr Ala Arg Pro Gln Lys Gly Arg Lys
266             180                 185                 190
268 Pro Arg Pro Gly Ala Lys Ala Asn Gln Ala Glu Leu Glu Asn Ala Tyr
269         195                 200                 205
272 <210> SEQ ID NO: 7
273 <211> LENGTH: 24
274 <212> TYPE: DNA
275 <213> ORGANISM: Artificial
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Artificial: PCR primer
280 <400> SEQUENCE: 7
282 tactggaagg tggcgtgccc tcct                                          24
285 <210> SEQ ID NO: 8
286 <211> LENGTH: 26
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Artificial: PCR primer
293 <400> SEQUENCE: 8
295 aaaccacgcg cagaggacag aaatgt                                        26
298 <210> SEQ ID NO: 9
299 <211> LENGTH: 29
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial
303 <220> FEATURE:
304 <223> OTHER INFORMATION: Artificial: PCR primer
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RAW SEQUENCE LISTING DATE: 11/03/2003
PATENT APPLICATION: **US/10/679,670** TIME: 12:07:19

Input Set : **A:\37428A.txt**
Output Set: **N:\CRF4\11032003\J679670.raw**

306 <400> SEQUENCE: 9
308 gccaggggtg gcaagccttc aagaatgat 29
311 <210> SEQ ID NO: 10
312 <211> LENGTH: 24
313 <212> TYPE: DNA
314 <213> ORGANISM: Artificial
316 <220> FEATURE:
317 <223> OTHER INFORMATION: Artificial: PCR primer
319 <400> SEQUENCE: 10
321 cgatccggga tgcagcggaa gtcg 24
324 <210> SEQ ID NO: 11
325 <211> LENGTH: 27
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial
329 <220> FEATURE:
330 <223> OTHER INFORMATION: Artificial: PCR primer
332 <400> SEQUENCE: 11
334 ccatcctaat acgactcact atagggc 27
337 <210> SEQ ID NO: 12
338 <211> LENGTH: 24
339 <212> TYPE: DNA
340 <213> ORGANISM: Artificial
342 <220> FEATURE:
343 <223> OTHER INFORMATION: Artificial: PCR primer
345 <400> SEQUENCE: 12
347 tgtcaggaag cgggtgtagt gcag 24
350 <210> SEQ ID NO: 13
351 <211> LENGTH: 23
352 <212> TYPE: DNA
353 <213> ORGANISM: Artificial
355 <220> FEATURE:
356 <223> OTHER INFORMATION: Artificial: PCR primer
358 <400> SEQUENCE: 13
360 actcactata gggctcgagc ggc 23
363 <210> SEQ ID NO: 14
364 <211> LENGTH: 25
365 <212> TYPE: DNA
366 <213> ORGANISM: Artificial
368 <220> FEATURE:
370 <223> OTHER INFORMATION: Artificial: PCR primer
372 <400> SEQUENCE: 14
374 ggacacatct ttggcgtcat aggga 25
377 <210> SEQ ID NO: 15
378 <211> LENGTH: 21
379 <212> TYPE: DNA
380 <213> ORGANISM: Artificial
382 <220> FEATURE:
383 <223> OTHER INFORMATION: Artificial: PCR primer
385 <400> SEQUENCE: 15

<210> SEQ ID NO 23
<211> LENGTH: 11
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: :

see p. 7 for error explanation

<400> SEQUENCE: 23

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

7

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/03/2003
PATENT APPLICATION: US/10/679,670 TIME: 12:07:20

Input Set : A:\37428A.txt
Output Set: N:\CRF4\11032003\J679670.raw

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,24

Use of <220> Feature(NEW RULES): error explanation
Sequence(s) are missing the <220> Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"
or"Unknown". Please explain source of genetic material in <220> to <223>
section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32)
(Sec.1.823 of new Rules)

Seq#:23

VERIFICATION SUMMARY DATE: 11/03/2003
PATENT APPLICATION: **US/10/679,670** TIME: 12:07:20

Input Set : **A:\37428A.txt**
Output Set: **N:\CRF4\11032003\J679670.raw**

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:485 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23
L:487 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:23, <213> ORGANISM:Artificial Sequence
L:487 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:23, <213> ORGANISM:Artificial Sequence
L:487 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:23,Line#:487